



## SEQUENCE LISTING

&lt;110&gt; YANG, JIANXIN

&lt;120&gt; GENE AMPLIFICATION AND OVEREXPRESSION IN CANCER

&lt;130&gt; 38002-0071

&lt;140&gt; 10/817,418

&lt;141&gt; 2004-04-05

&lt;150&gt; 60/462,702

&lt;151&gt; 2003-04-15

&lt;160&gt; 23

&lt;170&gt; PatentIn Ver. 3.2

&lt;210&gt; 1

&lt;211&gt; 3001

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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| tggctcc  | ctgc | tagagcag  | ct      | ggcctg   | ggc     | ggggcag  | ac         | tggcggcccc | cggggtac | 180  |
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| aaggagg  | gtg  | ctgagaac  | ct      | gcggcgg  | gcc     | accactg  | ac         | tgggccc    | cag      | 300  |
| gtagagc  | tg   | ctgcggg   | ct      | cctcgc   | gc      | cgctc    | gac        | tgctgcac   | ca       | 360  |
| gagctgc  | cac  | gctgg     | gt      | ctccg    | ac      | cgggcgg  | cca        | cccacgat   | gg       | 420  |
| cctggtg  | cgg  | gtggcccc  | ac      | ctgctc   | ggc     | accaac   | ctga       | gccgcgt    | ggc      | 480  |
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| aagaacg  | tac  | tgccctg   | ct      | cagcgtg  | cc      | aaggcccc | cg         | accgcaag   | gc       | 840  |
| gcccagg  | aga  | aattgac   | aga     | atccaacc | ag      | aagctggg | gc         | tgctgcgg   | ga       | 900  |
| cggagact | t    | gggagctg  | cc      | cgccgacc | ac      | cccaaggg | gc         | ggctgctg   | c        | 960  |
| gctgcgc  | cct  | cctccgtg  | c       | cttcag   | cacc    | cgctggcc | g          | ggcccttt   | cc       | 1020 |
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| attttct  | cca  | agcagca   | agg     | gaaggc   | gttc    | cagcgtg  | cta        | ggcagat    | gaa      | 1620 |
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| agcccat  | cga  | gcctgag   | ctc     | ccccat   | ccag    | gaatcc   | actg       | ctcccg     | agct     | 1860 |
| acccagg  | aga  | ccccagg   | ccc     | cgccctg  | tg      | agccct   | ctga       | ggaagt     | cacc     | 1920 |
| gaagatt  | tca  | agttcct   | ggc     | ggtgct   | ggg     | cggggt   | catt       | ttggga     | agg      | 1980 |
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<211> 942

<212> PRT

<213> Homo sapiens

<400> 2

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Gln Gln Leu Glu Leu Glu Arg Glu Arg Leu Arg Arg Glu Ile Arg Lys
      35              40              45

Glu Leu Lys Leu Lys Glu Gly Ala Glu Asn Leu Arg Arg Ala Thr Thr
      50              55              60

Asp Leu Gly Arg Ser Leu Gly Pro Val Glu Leu Leu Leu Arg Gly Ser
      65              70              75              80

Ser Arg Arg Leu Asp Leu Leu His Gln Gln Leu Gln Glu Leu His Ala
      85              90              95

His Val Val Leu Pro Asp Pro Ala Ala Thr His Asp Gly Pro Gln Ser
      100              105              110

Pro Gly Ala Gly Gly Pro Thr Cys Ser Ala Thr Asn Leu Ser Arg Val
      115              120              125

Ala Gly Leu Glu Lys Gln Leu Ala Ile Glu Leu Lys Val Lys Gln Gly
      130              135              140

Ala Glu Asn Met Ile Gln Thr Tyr Ser Asn Gly Ser Thr Lys Asp Arg
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Lys Leu Leu Leu Thr Ala Gln Gln Met Leu Gln Asp Ser Lys Thr Lys
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Ile | Ile | Arg | Met | Gln | Leu | Arg | Arg | Ala | Leu | Gln | Ala | Asp | Gln | 180 | 185 | 190 |
| Leu | Glu | Asn | Gln | Ala | Ala | Pro | Asp | Asp | Thr | Gln | Gly | Ser | Pro | Asp | Leu | 195 | 200 | 205 |
| Gly | Ala | Val | Glu | Leu | Arg | Ile | Glu | Glu | Leu | Arg | His | His | Phe | Arg | Val | 210 | 215 | 220 |
| Glu | His | Ala | Val | Ala | Glu | Gly | Ala | Lys | Asn | Val | Leu | Arg | Leu | Leu | Ser | 225 | 230 | 235 |
| Ala | Ala | Lys | Ala | Pro | Asp | Arg | Lys | Ala | Val | Ser | Glu | Ala | Gln | Glu | Lys | 245 | 250 | 255 |
| Leu | Thr | Glu | Ser | Asn | Gln | Lys | Leu | Gly | Leu | Leu | Arg | Glu | Ala | Leu | Glu | 260 | 265 | 270 |
| Arg | Arg | Leu | Gly | Glu | Leu | Pro | Ala | Asp | His | Pro | Lys | Gly | Arg | Leu | Leu | 275 | 280 | 285 |
| Arg | Glu | Glu | Leu | Ala | Ala | Ala | Ser | Ser | Ala | Ala | Phe | Ser | Thr | Arg | Leu | 290 | 295 | 300 |
| Ala | Gly | Pro | Phe | Pro | Ala | Thr | His | Tyr | Ser | Thr | Leu | Cys | Lys | Pro | Ala | 305 | 310 | 315 |
| Pro | Leu | Thr | Gly | Thr | Leu | Glu | Val | Arg | Val | Val | Gly | Cys | Arg | Asp | Leu | 325 | 330 | 335 |
| Pro | Glu | Thr | Ile | Pro | Trp | Asn | Pro | Thr | Pro | Ser | Met | Gly | Gly | Pro | Gly | 340 | 345 | 350 |
| Thr | Pro | Asp | Ser | Arg | Pro | Pro | Phe | Leu | Ser | Arg | Pro | Ala | Arg | Gly | Leu | 355 | 360 | 365 |
| Tyr | Ser | Arg | Ser | Gly | Ser | Leu | Ser | Gly | Arg | Ser | Ser | Leu | Lys | Ala | Glu | 370 | 375 | 380 |
| Ala | Glu | Asn | Thr | Ser | Glu | Val | Ser | Thr | Val | Leu | Lys | Leu | Asp | Asn | Thr | 385 | 390 | 395 |
| Val | Val | Gly | Gln | Thr | Ser | Trp | Lys | Pro | Cys | Gly | Pro | Asn | Ala | Trp | Asp | 405 | 410 | 415 |
| Gln | Ser | Phe | Thr | Leu | Glu | Leu | Glu | Arg | Ala | Arg | Glu | Leu | Glu | Leu | Ala | 420 | 425 | 430 |
| Val | Phe | Trp | Arg | Asp | Gln | Arg | Gly | Leu | Cys | Ala | Leu | Lys | Phe | Leu | Lys | 435 | 440 | 445 |
| Leu | Glu | Asp | Phe | Leu | Asp | Asn | Glu | Arg | His | Glu | Val | Gln | Leu | Asp | Met | 450 | 455 | 460 |
| Glu | Pro | Gln | Gly | Cys | Leu | Val | Ala | Glu | Val | Thr | Phe | Arg | Asn | Pro | Val | 465 | 470 | 475 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 480 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Arg | Ile | Pro | Arg | Leu | Arg | Arg | Gln | Lys | Lys | Ile | Phe | Ser | Lys | 485 | 490 | 495 |
| Gln | Gln | Gly | Lys | Ala | Phe | Gln | Arg | Ala | Arg | Gln | Met | Asn | Ile | Asp | Val | 500 | 505 | 510 |
| Ala | Thr | Trp | Val | Arg | Leu | Leu | Arg | Arg | Leu | Ile | Pro | Asn | Ala | Thr | Gly | 515 | 520 | 525 |
| Thr | Gly | Thr | Phe | Ser | Pro | Gly | Ala | Ser | Pro | Gly | Ser | Glu | Ala | Arg | Thr | 530 | 535 | 540 |
| Thr | Gly | Asp | Ile | Ser | Val | Glu | Lys | Leu | Asn | Leu | Gly | Thr | Asp | Ser | Asp | 545 | 550 | 555 |
| Ser | Ser | Pro | Gln | Lys | Ser | Ser | Arg | Asp | Pro | Pro | Ser | Ser | Pro | Ser | Ser | 565 | 570 | 575 |
| Leu | Ser | Ser | Pro | Ile | Gln | Glu | Ser | Thr | Ala | Pro | Glu | Leu | Pro | Ser | Glu | 580 | 585 | 590 |
| Thr | Gln | Glu | Thr | Pro | Gly | Pro | Ala | Leu | Cys | Ser | Pro | Leu | Arg | Lys | Ser | 595 | 600 | 605 |
| Pro | Leu | Thr | Leu | Glu | Asp | Phe | Lys | Phe | Leu | Ala | Val | Leu | Gly | Arg | Gly | 610 | 615 | 620 |
| His | Phe | Gly | Lys | Val | Leu | Leu | Ser | Glu | Phe | Arg | Pro | Ser | Gly | Glu | Leu | 625 | 630 | 635 |
| Phe | Ala | Ile | Lys | Ala | Leu | Lys | Lys | Gly | Asp | Ile | Val | Ala | Arg | Asp | Glu | 645 | 650 | 655 |
| Val | Glu | Ser | Leu | Met | Cys | Glu | Lys | Arg | Ile | Leu | Ala | Ala | Val | Thr | Ser | 660 | 665 | 670 |
| Ala | Gly | His | Pro | Phe | Leu | Val | Asn | Leu | Phe | Gly | Cys | Phe | Gln | Thr | Pro | 675 | 680 | 685 |
| Glu | His | Val | Cys | Phe | Val | Met | Glu | Tyr | Ser | Ala | Gly | Gly | Asp | Leu | Met | 690 | 695 | 700 |
| Leu | His | Ile | His | Ser | Asp | Val | Phe | Ser | Glu | Pro | Arg | Ala | Ile | Phe | Tyr | 705 | 710 | 715 |
| Ser | Ala | Cys | Val | Val | Leu | Gly | Leu | Gln | Phe | Leu | His | Glu | His | Lys | Ile | 725 | 730 | 735 |
| Val | Tyr | Arg | Asp | Leu | Lys | Leu | Asp | Asn | Leu | Leu | Leu | Asp | Thr | Glu | Gly | 740 | 745 | 750 |
| Tyr | Val | Lys | Ile | Ala | Asp | Phe | Gly | Leu | Cys | Lys | Glu | Gly | Met | Gly | Tyr | 755 | 760 | 765 |
| Gly | Asp | Arg | Thr | Ser | Thr | Phe | Cys | Gly | Thr | Pro | Glu | Phe | Leu | Ala | Pro | 770 | 775 | 780 |

Glu Val Leu Thr Asp Thr Ser Tyr Thr Arg Ala Val Asp Trp Trp Gly  
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 Leu Gly Val Leu Leu Tyr Glu Met Leu Val Gly Glu Ser Pro Phe Pro  
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 Gly Asp Asp Glu Glu Glu Val Phe Asp Ser Ile Val Asn Asp Glu Val  
 820 825 830  
 Arg Tyr Pro Arg Phe Leu Ser Ala Glu Ala Ile Gly Ile Met Arg Arg  
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 850 855 860  
 Ala Glu Asp Val Lys Lys Gln Pro Phe Phe Arg Thr Leu Gly Trp Glu  
 865 870 875 880  
 Ala Leu Leu Ala Arg Arg Leu Pro Pro Pro Phe Val Pro Thr Leu Ser  
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 Gly Arg Thr Asp Val Ser Asn Phe Asp Glu Glu Phe Thr Gly Glu Ala  
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oligonucleotide structure

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<220>

<223> Description of Artificial Sequence: Model  
oligonucleotide structure

<400> 19

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gagccucgca gcgguguuuc guccuuucca caa 93

<210> 20

<211> 93

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

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<211> 93

<212> RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
primer

<400> 23

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